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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/552,861	04/13/2006	Fouad El Khaldi	05-681	2617
34704 BACHMAN &	7590 06/27/2007 LAPOINTE, P.C.	EXAMINER		
900 CHAPEL SUITE 1201	•		DAY, HERNG DER	
NEW HAVEN, CT 06510			ART UNIT	PAPER NUMBER
	•		2128	•
			MAIL DATE	DELIVERY MODE
			06/27/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)			
Office Action Summary		10/552,861	EL KHALDI ET AL.			
		Examiner	Art Unit			
	-	Herng-der Day	2128			
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address					
Period for Reply						
WHIC - Exter after - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Operiod for reply is specified above, the maximum statutory period ver to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATIO 36(a). In no event, however, may a reply be ti will apply and will expire SIX (6) MONTHS fron , cause the application to become ABANDONI	N. mely filed n the mailing date of this communication. ED (35 U.S.C. § 133).			
Status						
1)⊠	Responsive to communication(s) filed on 13 Ap	<u>pril 2006</u> .				
2a) <u></u> ☐	This action is FINAL . 2b)⊠ This action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Dispositi	ion of Claims					
4)⊠	Claim(s) <u>4-6</u> is/are pending in the application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)[Claim(s) is/are allowed.					
•	Claim(s) <u>4-6</u> is/are rejected.					
	Claim(s) is/are objected to.					
8)	Claim(s) are subject to restriction and/o	r election requirement.				
Applicati	ion Papers	•	·			
9)[The specification is objected to by the Examine	er.				
10)⊠	The drawing(s) filed on 11 October 2005 is/are					
	Applicant may not request that any objection to the					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)[_]	The oath or declaration is objected to by the Ex	caminer. Note the attached Office	e Action of form PTO-152.			
Priority (under 35 U.S.C. § 119					
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachmer	nt(s)					
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date						
3) 🔲 Infor	ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) er No(s)/Mail Date	5) Notice of Informal 6) Other:				

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DETAILED ACTION

1. Claims 1-3 have been cancelled. Claims 4-6 have been examined and rejected.

Priority

2. Acknowledgment is made of Applicants' claim for foreign priority under 35 U.S.C. 119(a)-(d). The certified copy of the priority document for PCT/FR2004/000891, filed on April 9, 2004, has been received in this National Stage application from the International Bureau. The priority date of a foreign application is April 11, 2003.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 4. Claims 4-6 are rejected under 35 U.S.C. 102(e) as being anticipated by Hillmann et al.,U.S. Patent Application Publication 2003/0167097 A1, published September 4, 2003.
- **4-1.** Regarding claim 4, Hillmann et al. disclose a parametric reverse engineering method for designing tools comprising the steps of:

importing an existing model including a design of an existing tool for an existing part (to use the geometrical information and data related to the tool (die, binder, punch) and the sheet

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metal part, handled and generated by the herein described invention, as input data for tooling, paragraph [0032], lines 1-6);

producing a template for the existing tool (the complete tool surfaces, paragraph [0027], lines 1-6);

separating the existing tool from the part (Extraction of the individual tool components from the generated geometries, paragraph [0007], lines 27-28);

cataloguing and saving in a numerical database structured in the form of a catalogue the creation of the existing tool using section lines and characteristic lines (The concept of the characteristic lines can also be transferred to profile parameters, paragraph [0027], lines 1-6);

removing the existing part (Extraction of the individual tool components from the generated geometries, paragraph [0007], lines 27-28);

parameterising the template of the existing tool by creating a parametric profile on section lines and characteristic lines (Parametric creation of the part tools, paragraph [0027], lines 1-11);

importing a new part (A changing of the addendum, paragraph [0027], lines 13-15); making the parametric template correspond to the new part (entails the corresponding change of the part tools, paragraph [0027], lines 13-15); and

creating a new tool for the new part (a new tool geometry and an appertaining consistent geometry and process model for the simulation are created, paragraph [0031], lines 9-12).

4-2. Regarding claim 5, Hillmann et al. further disclose wherein the step of parameterising the template is carried out automatically (the effort for the preparation of alternative simulations,

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whether manual or *carried out automatically* within an optimization loop, can be significantly reduced, paragraph [0031], lines 5-9).

4-3. Regarding claim 6, Hillmann et al. further disclose wherein the step of parameterising the template is carried out interactively (the effort for the preparation of alternative simulations, whether *manual* or carried out automatically within an optimization loop, can be significantly reduced, paragraph [0031], lines 5-9).

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to Applicant's disclosure.

Reference to Thomas et al., U.S. Patent 7,024,272 B2 issued April 4, 2006, and filed February 5, 2003, is cited as disclosing a method for virtual machining.

Reference to Manuel et al., U.S. Patent Application Publication 2004/0091734 A1, published May 13, 2004, and filed November 7, 2002, is cited as disclosing a method for creating a tool.

Reference to Ananth et al., U.S. Patent Application Publication 2005/0028133 A1, published February 3, 2005, and filed August 2, 2004, is cited as disclosing a method for rapid design, prototyping, and implementation of virtually any task performance system or device.

6. Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Herng-der Day whose telephone number is (571) 272-3777. The Examiner can normally be reached on 9:00 - 17:30.

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Any inquiry of a general nature or relating to the status of this application should be directed to the TC 2100 Group receptionist: (571) 272-2100.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Kamini S. Shah can be reached on (571) 272-2279. The fax phone numbers for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Herng-der Day June 21, 2007

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